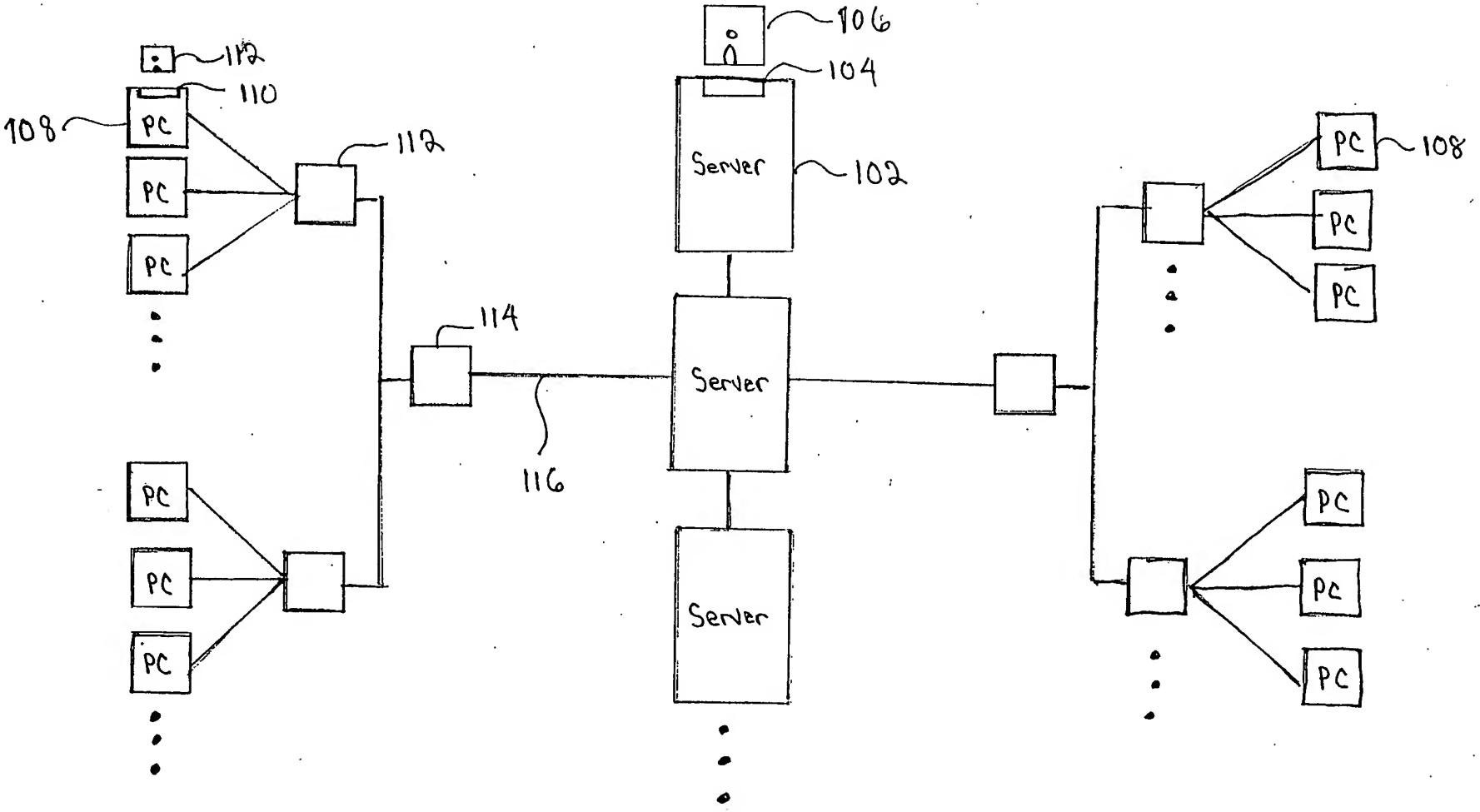
112
110
108
PC
PC
PC
112
114
116
106
104
Server
102
Server
Server
PC
PC
PC
108
PC
PC
PC
PC
PC
PC

FIG. 1

100

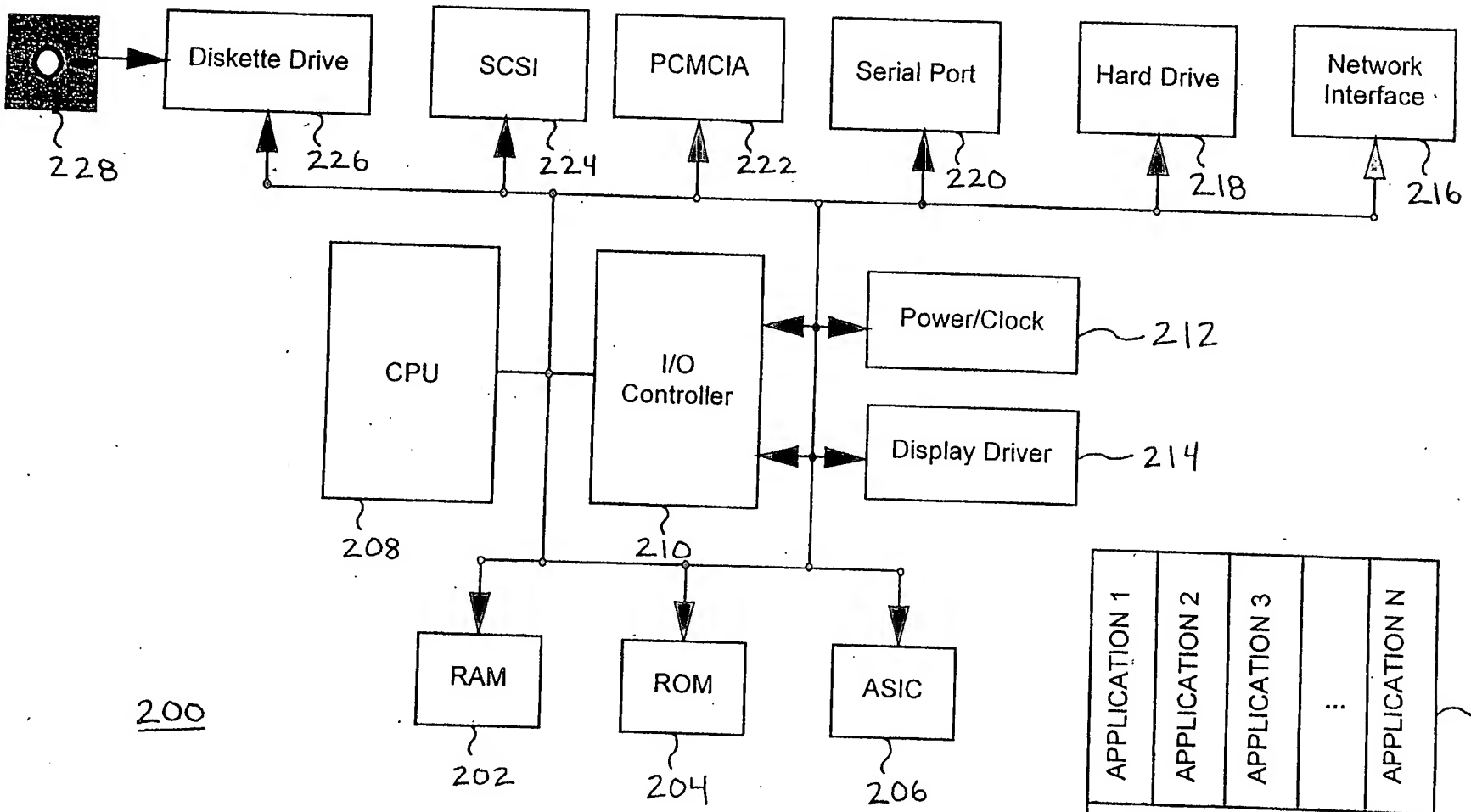
Diskette Drive
SCSI
PCMCIA
Serial Port
Hard Drive
Network Interface
228
226
224
222
220
218
216
CPU
I/O Controller
Power/Clock
212
Display Driver
214
208
210
RAM
ROM
ASIC
202
204
206
200

FIG. 2

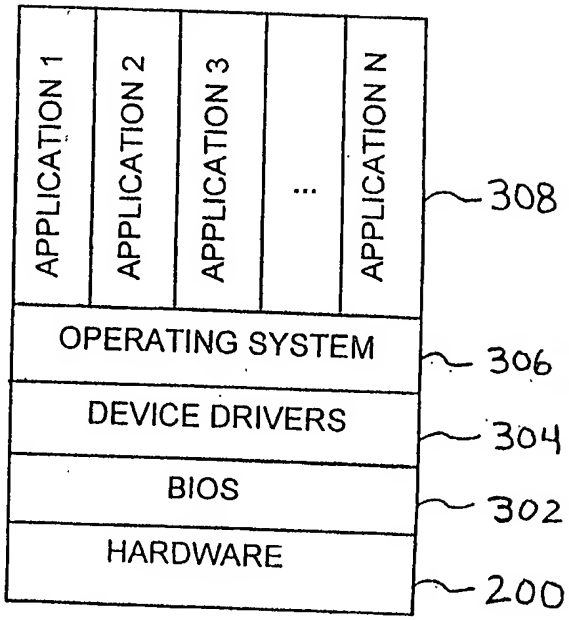
APPLICATION 1
APPLICATION 2
APPLICATION 3
...
APPLICATION N
308
OPERATING SYSTEM
306
DEVICE DRIVERS
304
BIOS
302
HARDWARE
200

FIG. 3

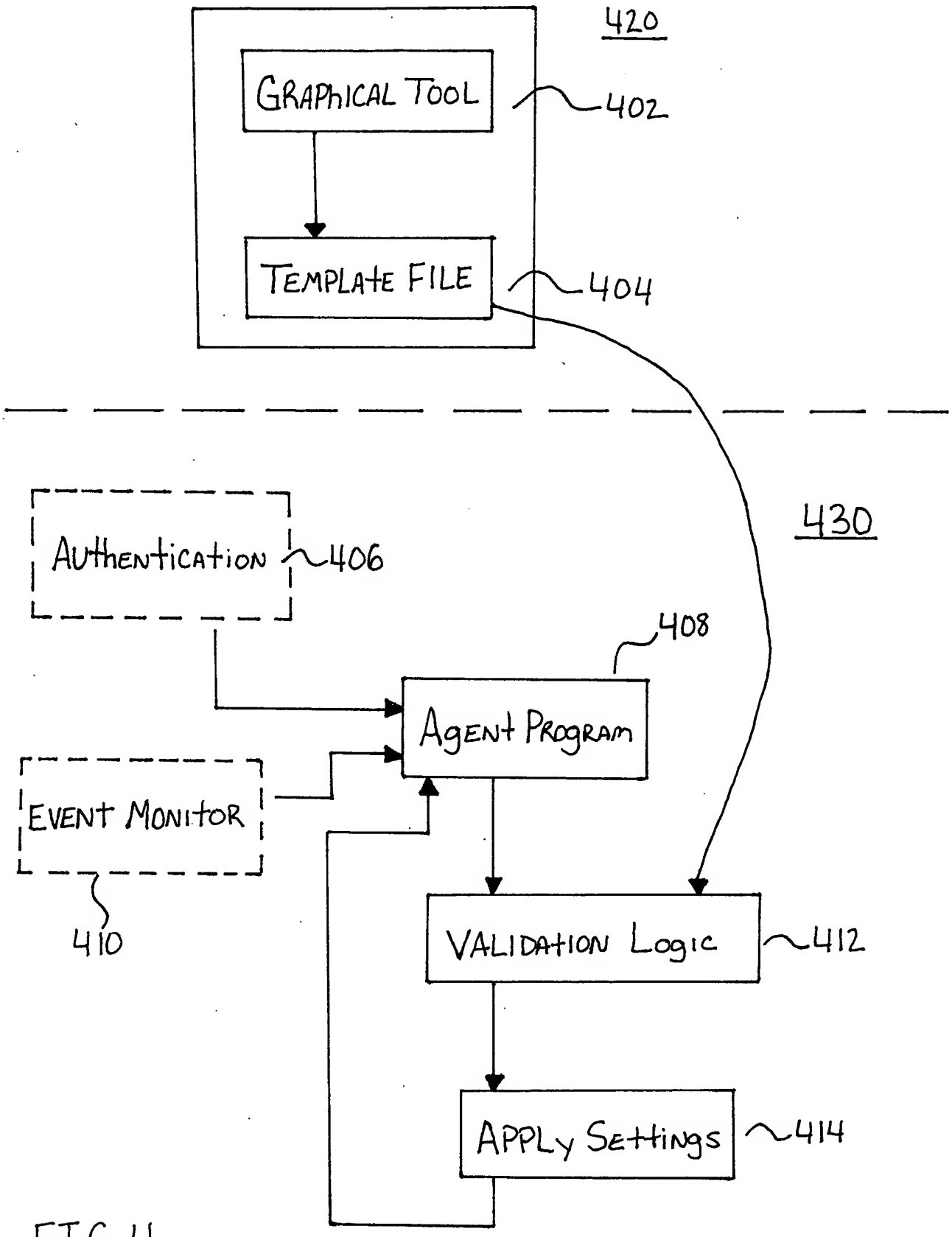
420
GRAPHICAL TOOL
402
TEMPLATE FILE
404
430
AUTHENTICATION
406
408
AGENT PROGRAM
EVENT MONITOR
410
VALIDATION LOGIC
412
APPLY SETTINGS
414

FIG.4

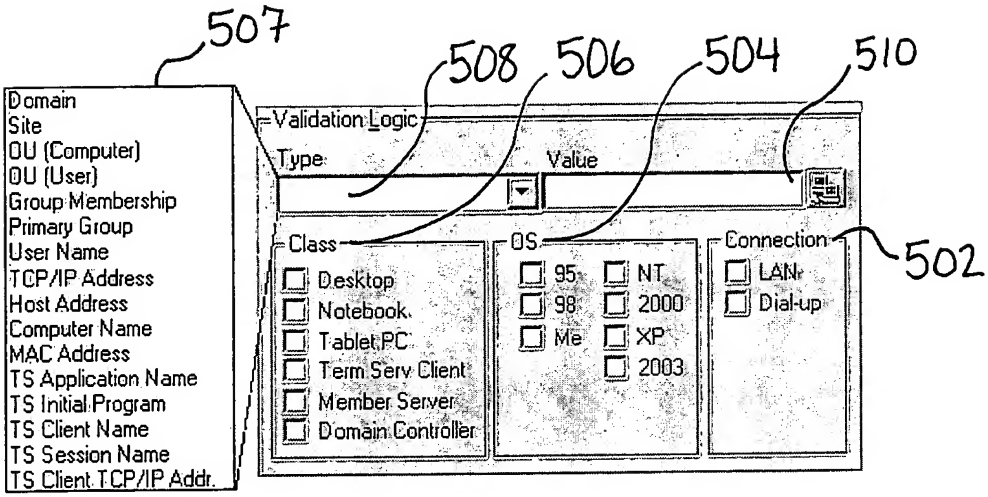
507
508
506
504
510
502
Domain
Site
OU (Computer)
OU (User)
Group Membership
Primary Group
User Name
TCP/IP Address
Host Address
Computer Name
MAC Address
TS Application Name
TS Initial Program
TS Client Name
TS Session Name
TS Client TCP/IP Addr.
Validation Logic
Type
Value
Class
Desktop
Notebook
Tablet PC
Term Serv Client
Member Server
Domain Controller
OS
95
98
Me
NT
2000
XP
2003
Connection
LAN
Dial-up

FIG. 5

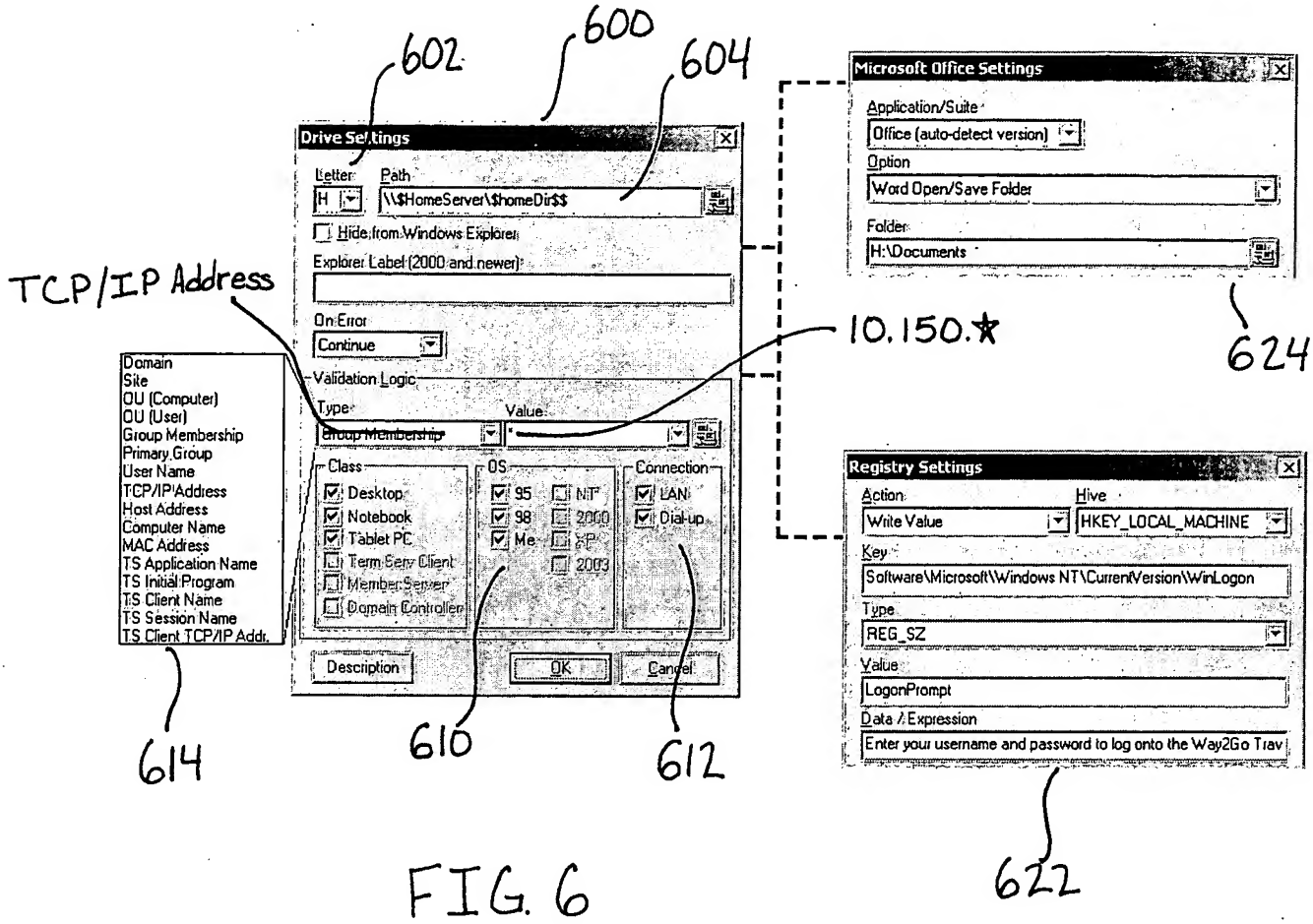
602
600
604
Drive Settings
Letter
Path
H
\\$HomeServer\$homeDir$$
Hide from Windows Explorer
Explorer Label (2000 and newer)
On Error
Continue
Validation Logic
Type
Value
Group Membership
*
Class
Desktop
Notebook
Tablet PC
Term Serv Client
Member Server
Domain Controller
OS
95
98
Me
NT
2000
XP
2003
Connection
LAN
Dial-up
Description
OK
Cancel
TCP/IP Address
Domain
Site
OU (Computer)
OU (User)
Group Membership
Primary Group
User Name
TCP/IP Address
Host Address
Computer Name
MAC Address
TS Application Name
TS Initial Program
TS Client Name
TS Session Name
TS Client TCP/IP Addr.
10.150.*
Microsoft Office Settings
Application/Suite
Office (auto-detect version)
Option
Word Open/Save Folder
Folder
H:\Documents
624
Registry Settings
Action
Write Value
Hive
HKEY_LOCAL_MACHINE
Key
Software\Microsoft\Windows NT\CurrentVersion\WinLogon
Type
REG_SZ
Value
LogonPrompt
Data / Expression
Enter your username and password to log onto the Way2Go Trav
614
610
612
622

FIG. 6

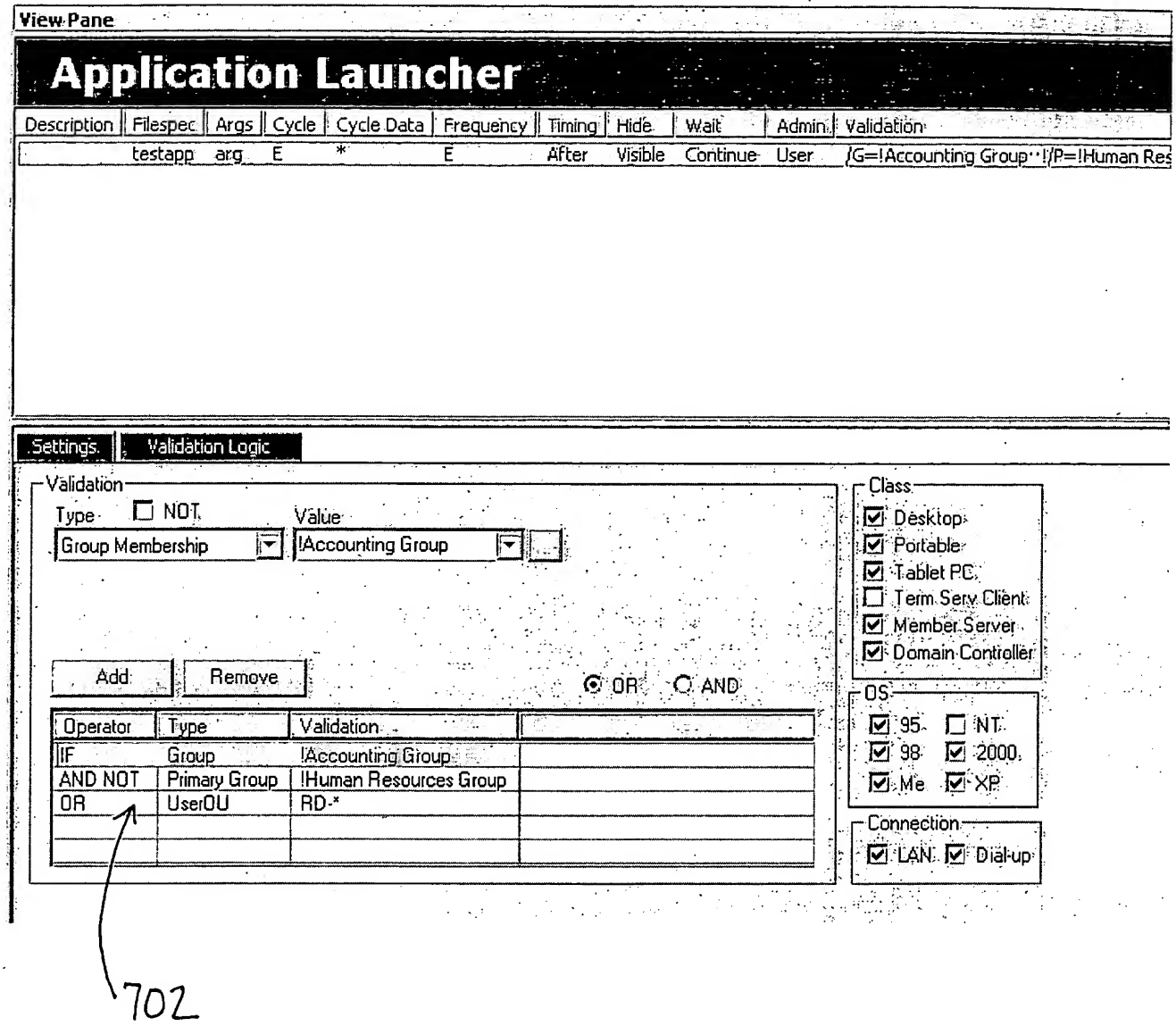
View Pane
Application Launcher
Description
Filespec
Args
Cycle
Cycle Data
Frequency
Timing
Hide
Wait
Admin
Validation
testapp arg E * E After Visible Continue User /G=!Accounting Group /P=!Human Res
Settings
Validation Logic
Validation
Type
NOT
Value
Group Membership
!Accounting Group
Add
Remove
OR
AND
Operator
Type
Validation
IF
Group
!Accounting Group
AND NOT
Primary Group
!Human Resources Group
OR
UserOU
RD-*
Class
Desktop
Portable
Tablet PC
Term Serv Client
Member Server
Domain Controller
OS
95
NT
98
2000
Me
XP
Connection
LAN
Dial-up
702

FIG. 7

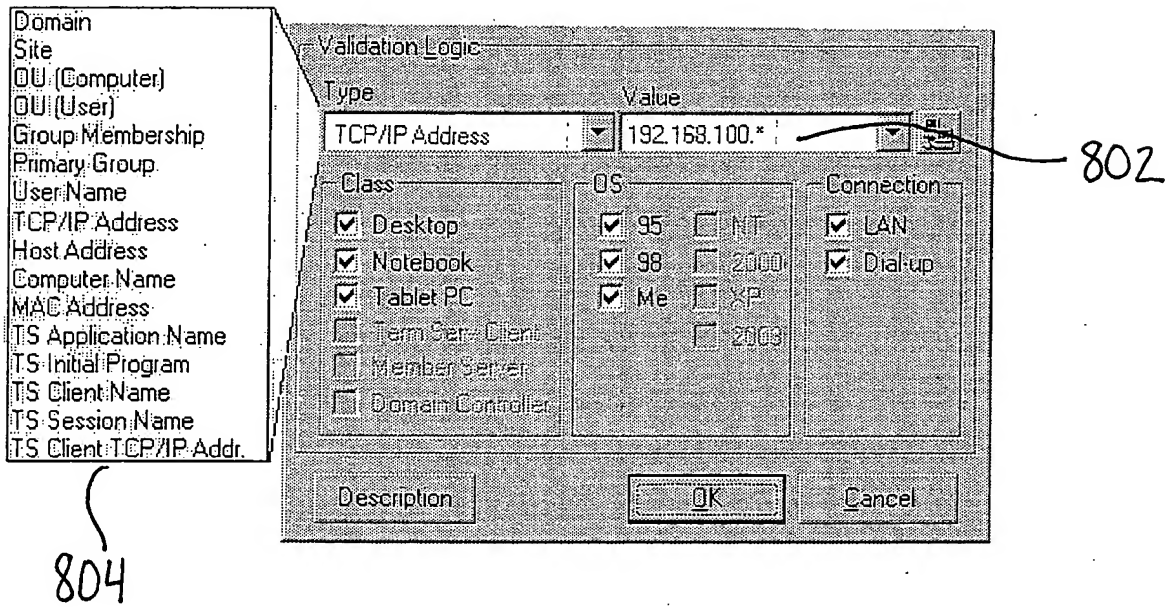
Domain
Site
OU (Computer)
OU (User)
Group Membership
Primary Group
User Name
TCP/IP Address
Host Address
Computer Name
MAC Address
TS Application Name
TS Initial Program
TS Client Name
TS Session Name
TS Client TCP/IP Addr.
804
Validation Logic
Type
Value
TCP/IP Address
192.168.100.*
802
Class
Desktop
Notebook
Tablet PC
Term Serv Client
Member Server
Domain Controller
OS
95
98
Me
NT
2000
XP
2003
Connection
LAN
Dial-up
Description
OK
Cancel

FIG. 8

FIG. 9

```
function slMultiCompare($StringA,$StringB)
  ; SL platforms: 4.01 ; LastRev: 2002-Aug-21
  ; dependencies: slWildCompare(), slQuestionCompare()
  ; compares one string to another, and supports '*' and '?' as a wildcards
  ; stringA: constant string
  ; stringB: variable string
  ;          stringB can contain wildcards '*' and '?'
  ;          stringB can be an array or a single string containing multiple elements,
each separated by a semi-colon
  dim $ArrayB, $elementB
  $slMultiCompare=0 ; default false
  if $StringA and $StringB
    $StringA=trim($StringA)
    if vartype($StringB)<8192 ; StringB is a string
      $ArrayB=split($StringB+';',';') ; remove last ; added for split to achieve at least
one element
      redim preserve $ArrayB[ubound($ArrayB)-1]
    else ; StringB is an array
      $ArrayB=$StringB
    endif
    for each $ElementB in $ArrayB
      $ElementB=trim($elementB)
      select
        case $ElementB='*' ; single wildcard - matches everything
          $slMultiCompare=1
          return ; true
        case $StringA=$ElementB
          $slMultiCompare=1
          return ; true
        case instr($ElementB,'*')
          if slWildCompare($StringA,$ElementB)
            $slMultiCompare=1
            return ; true
          endif
        case instr($ElementB,'?')
          if slWildCompare($StringA,$ElementB)
            $slMultiCompare=1
            return ; true
          endif
        case 1 ; no wildcards and we've already determined that strings don't match
          ; do nothing - proceed to next array element
      endselect
    next
  endif
endfunction

function slWildCompare($StringA,$StringB)
  ; SL platforms: 4.01 ; LastRev: 2002-Aug-21
  ; dependencies: slQuestionCompare()
  ; Do not call this function directly -- use slMultiCompare() instead
  ; compares one string to another, and supports wildcards
  ; stringA: constant string
  ; stringB: variable string (can contain wildcards '*' and '?')
  ; could add case-sensitivity option in future...
  dim $LenStringA, $lenStringB, $QuestionLoc, $AsteriskLoc
  dim $GlobArray, $LenGAE, $lenGAEfirst, $lenGAElast, $GAUB
  $slWildCompare=0 ; default to no match
  if $StringA and $StringB
    $StringA=trim($StringA)
    $LenStringA=len($StringA)
    if $StringB='*' ; single wildcard - matches everything
      $slWildCompare=1
      return ;true
    endif
    if $StringA=$StringB ; exact match
      $slWildCompare=1
      return ;true
    else ; not exact match
```

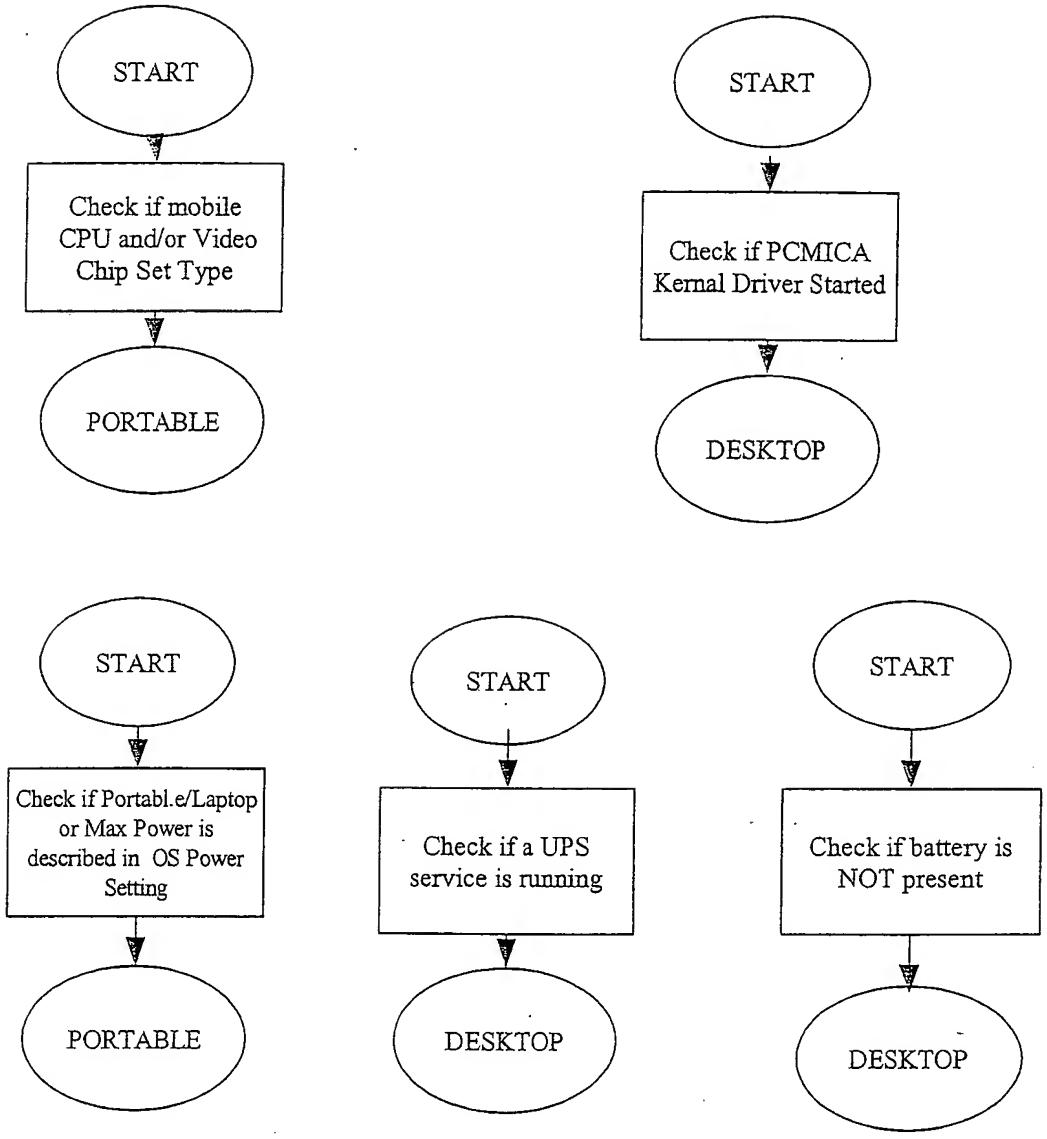
START
Check if mobile CPU and/or Video Chip Set Type
PORTABLE
START
Check if PCMICA Kernal Driver Started
DESKTOP
START
Check if Portabl.e/Laptop or Max Power is described in OS Power Setting
PORTABLE
START
Check if a UPS service is running
DESKTOP
START
Check if battery is NOT present
DESKTOP

FIG. 10

FIG. 11 FLOW AND CASE STATEMENT

```
    $CurrentPowerProfileValue=readvalue('HKCU\Control
Panel\PowerCfg','CurrentPowerPolicy')
    $CurrentPowerProfileName=readvalue('HKCU\Control
Panel\PowerCfg\PowerPolicies\'+$CurrentPowerProfileValue,'Name')
    select
      case instr($SiProcessorNameString,'mobile') ; Mobile CPU type
        ; highly confident that this is a portable computer!
        ; platforms tested on: XP
        $ClientClassRule='rule 1: Mobile CPU type -> portable'
        $SiComputerType='Portable'
        $ClientClass='Port'
      case @INWIN=1 and
0+readvalue('HKLM\System\CurrentControlSet\Services\pcmcia','Start')=4 ; NT & PCMCIA
kernel driver not started
        ; highly confident that this is a desktop computer!
        ; platforms tested on: NT, 2000, XP
        $ClientClassRule='rule 2: PCMCIA driver not started (NT) -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case @INWIN=2 and
''+readvalue('HKLM\System\CurrentControlSet\Control\InstalledFiles','PCCard.vxd')='' ; 9x
& PCMCIA kernel driver not started
        ; highly confident that this is a desktop computer!
        ; platforms tested on: 95, 98, Me
        $ClientClassRule='rule 3: PCMCIA driver not started (9x) -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case $OS<>'NT' and $SiBatteryState=128 ; no battery present
        ; fairly confident that this is a desktop computer (it could be a laptop with the
battery removed).
        ; platforms tested on:
        $ClientClassRule='rule 4: No system battery deteted -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case slGetServiceStartup('UPS')='Automatic' ; Built-in UPS service on 2000/XP
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 5: built-in UPS service is automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case slGetServiceStartup('LiebertM')='Automatic' ; Liebert MultiLink 3.0
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 6: Liebert MultiLink UPS service is automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case slGetServiceStartup('APCPBEAgent')='Automatic' ; APC PowerChute Business
Edition 6.1
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 7: APC PowerChute Business Edition UPS service is
automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case slGetServiceStartup('APC UPS Service')='Automatic' ; APC PowerChute Personal
Edition
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
```

```
      $asteriskLoc=instr($StringB,'*')
      $questionLoc=instr($StringB,'?')
      if not ($asteriskLoc or $questionLoc)
        return ; false: no wildcards - no reason to continue
      endif
      $lenStringB=len($StringB)
      $GlobArray=split($StringB+'*','*')
      $GAUB=ubound($GlobArray)-1
      redim preserve $GlobArray[$GAUB] ; remove last * added for split to achieve at
least one element
      ; first Glob - special case test
      $lenGAEfirst=len($GlobArray[0])
      if not slQuestionCompare(left($StringA,$lenGAEfirst),$GlobArray[0])
        return ; false
      endif
      ; last Glob - special case test
      $lenGAElast=len($GlobArray[$GAUB])
      if not slQuestionCompare(right($StringA,$lenGAElast),$GlobArray[$GAUB])
        return ; false
      endif
      $StringA=substr($StringA,$lenGAEfirst+1,len($StringA)-$lenGAElast) ; removed final
-1 (was failing on *abc*)
      if $GAUB<2 ; less than 2 Globs - preceeding special case tests determined result
        $slWildCompare=1
        return ; true
      endif
      for $index=1 to $GAUB-1 ; process elements 2 through next-to-last
        $lenGAE=len($GlobArray[$index])
        if len($StringA)<$lenGAE
          return ; false
        endif
        while len($StringA) and not
slQuestionCompare(left($StringA,$lenGAE),$GlobArray[$index])
          $StringA=substr($StringA,2)
        loop
        if not slQuestionCompare(left($StringA,$lenGAE),$GlobArray[$index])
          return ; false
        else
          $StringA=substr($StringA,$lenGAE+1)
        endif
      next
      $slWildCompare=1
    endif
  endif
endfunction

function slQuestionCompare($StringA,$StringB)
  ; SL platforms: 4.01 ; LastRev: 2002-Aug-21
  ; Do not call this function directly -- use slMultiCompare() or slWildCompare() instead
  ; compares one string to another, and supports '?' as a wildcard
  ; StringA - constant
  ; StringB - variable
  dim $index, $StringBchar
  $slQuestionCompare=1
  if $StringA and $StringB
    if $StringA=$StringB
      $slQuestionCompare=1 ; true
    else
      $slQuestionCompare=0 ; default no match
      if not instr($StringB,'?') ; no question marks
        return ; false
      else
        ; length of both strings must be same to continue
        if len($StringA)<>len($StringB) ; different lengths
          return ; false
        endif
        ; perform comparison character-by-character
        for $index=1 to len($StringA)
          $StringBchar=substr($StringB,$index,1)
          if (substr($StringA,$index,1)<>$StringBchar) and $StringBchar<>'?'
            return ; false
```

```
          endif
        next
        $slQuestionCompare=1 ; true
      endif
    endif
  endif
endfunction
```

```
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 8: APC PowerChute Business Edition UPS service is
automatic -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case $CurrentPowerProfileName='APC USB UPS'
        ; highly confident that this is a desktop computer (who'd install UPS software on
a laptop?)
        ; ***$$ what about other UPS brands? What about APC non-USB models?
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 9: APC USB UPS power scheme -> desktop'
        $SiComputerType='Desktop'
        $ClientClass='Desk'
      case $CurrentPowerProfileName='Portable/Laptop' or $CurrentPowerProfileName='Max
Battery'
        ; somewhat confident that this is a portable computer. This setting is user
profile-specific and can be changed
        ; platforms tested on: XP, 2000
        $ClientClassRule='rule 10: portable/laptop or max battery power scheme ->
portable'
        $SiComputerType='Portable'
        $ClientClass='Port'
      case 1
        ; At this point, here is what we know:
        ;    Not a mobile CPU type
        ;    The Portable/Laptop power scheme is not selected
        ;    It does have PCMCIA sockets.
        ;    9x, 2000 & XP systems do not have a battery present
        ;
        $ClientClassRule='rule 11: default -> portable'
        $SiComputerType='Portable'
        $ClientClass='Port'
    endselect
```